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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/696,279	10/29/2003	Joseph D. Rainville	GP-303951	6502
65798 7590 12/17/2007 MILLER IP GROUP, PLC GENERAL MOTORS CORPORATION 42690 WOODWARD AVENUE SUITE 200			EXAMINER	
			HODGE, ROBERT W	
			ART UNIT	PAPER NUMBER
BLOOMFIELD HILLS, MI 48304			1795	
			MAIL DATE	DELIVERY MODE
			12/17/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Astion Commons	10/696,279	RAINVILLE, JOSEPH D.			
Office Action Summary	Examiner	Art Unit			
	Robert Hodge	1795			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) ☐ Responsive to communication(s) filed on  2a) ☐ This action is FINAL. 2b) ☐ This action is non-final.  3) ☑ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	·				
4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) 15-20 is/are withdraw 5) Claim(s) 1-14 is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers  9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the	rn from consideration.  election requirement.  r.  epted or b) □ objected to by the E				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(c)					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te			

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#### **DETAILED ACTION**

### Response to Arguments

Applicant's arguments, see Remarks, filed 3/14/07, with respect to the rejections of claims 1-3 and 5-9 have been fully considered and are persuasive. The rejections of claims 1-3 and 5-9 have been withdrawn. With regards to the Obviousness type Double Patenting rejections, they are also withdrawn because this application is earlier filed and is now in a condition for allowance.

## Allowable Subject Matter

This application is in condition for allowance except for the presence of claims 15-20 directed to an invention non-elected with traverse in the reply filed on 10/26/06. Applicants petitioned to have the Restriction Requirement removed on 3/14/07; a petition decision was made on 12/4/07 denying the removal of the requirement for Restriction under 37 CFR 1.144 thus affirming the Examiner's position.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

Prosecution on the merits is closed in accordance with the practice under Ex parte Quayle, 25 USPQ 74, 453 O.G. 213, (Comm'r Pat. 1935).

Claims 1-14 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: The prior art made of record does not teach or fairly suggest a fuel cell system comprising a bi-directional mass flow meter. There is also no motivation for a person of

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ordinary skill in the art to substitute a bi-directional mass flow meter into the closest prior art, which is AAPA. Doing so would completely alter the operation of the system and would require a different controller configuration to operate said bi-directional mass flow meter. It is further noted that the mass flow meter of AAPA is not capable of measuring air flow in a forward or reverse direction. Standard mass flow meters such as disclosed in AAPA are only capable of uni-directional air flow measurements and therefore a mass flow meter according to AAPA is not capable of the functional limitations as presented in the amendment to claim 1 filed 3/14/07 and as stated above there is no motivation to substitute a device for the a mass flow meter of AAPA, that is capable of measuring air flow in a forward and reverse direction in the prior art for a person having ordinary skill in the art to modify AAPA to meet the functional limitations of claim 1.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Hodge whose telephone number is (571) 272-2097. The examiner can normally be reached on 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

**RWH** 

JONATHAN CREPEAU PRIMARY EXAMINE